

M S Q S I K L F S V L S D Q F Q N N P Y A Y F  
1 ATGAGCCAATCGATTAAATTGTTTAGTGTGCTTTCTGATCAATTTCAAACAATCCATATGCTTATTTT  
S Q L R E E D P V H Y E E S I D S Y F I S R Y  
70 TCACAACTCGGGAGGAAGATCCGGTTTATTATGAAGAGTCGATAGACAGTTATTTTATCAGCCGCTAT  
H D V R Y I L Q H P D I F T T K S L V E R A E  
139 CATGATGTCCGCTATATCCTTCAGCATCCGGATATCTTCACGACGAAATCACTTGTGAGCGTGCCGAA  
P V M R G P V L A Q M H G K E H S A K R R I V  
208 CCAGTCATGCGAGGCCCTGTGTGGCCCCAAATGCATGGAAAAGAAACAACACTCTGCCAAAAGAAATGTGA  
V R S F I G D A L D H L S P L I K Q N A E N L  
277 GTGAGAAGCTTTATCGGTGACGCACTGGATCATCTGTCTCCATGTGATTAACAACAAAATGCAGAAAACCTTG  
L A P Y L E R G K S D L V N D F G K T F A V C  
346 TTAGCGCCTTATCTTGAAAGAGGGGAAAAGTGATCTCGTCAATGATTTTGGAAAAGACGTTTGCGGTGTGC  
V T M D M L G L D K R D H E K I S E W H S G V  
415 GTCACGATGGACATGCTCGGGCTGGATAAAAGAGACCATGAAAAAATCTCTGAGTGGCACAGCGGAGTT  
A D F I T S I S Q S P E A R A H S L W C S E Q  
484 GCCGATTTTATCAGGAGTATCTCTCAATCTCTGAAGCGCGGCACATTCTGTTATGGTGCAGCGAACAG  
L S Q Y L M P V I K E R R V N P G S D L I S I  
553 CTTTCCCAATACTTGATGCCGGTCAATTAAAGAACGTGCGTCAATCCGGGATCAGATTTAATTTTCGATC

Fig. 1A

L C T S E Y E G M A L S D K D I L A L I L N V  
622 CTATGTA CTCTGAATATGAAGCATGGCGCTGTCGGACAAGGATATACTCGCACTGATTCTTAATGTG  
L L A A T E P A D K T L A L M I Y H L L N N P  
691 CTGTTAGCCGCAACGGAACCGCTGATAAGACGCTGGCACTGATGATCTACCATTTGCTCAACAATCCT  
E Q M N D V L A D R S L V P R A I A E T L R Y  
760 GAGCAGATGAATGATGTTTGGCTGACCGTTTCGTTAGTTCGAGAGCCATTGCGGAGACATTGCGTTTAT  
K P P V Q L I P R Q L S Q D T V V G G M E I K  
829 AAACCGCGGTTCAGCTGATTCCGCGGCAGCTGTCCCAAGATACAGTGGTCGGCGGTATGGAAATCAAA  
K D T I V F C M I G A A N R D P E A F E Q P D  
898 AAAGATACGATTGTTTTTTGTATGATCGGTGGCTAACCGGGACCCCTGAAGCATTTGAACAGCCTGAC  
V F N I H R E D L G I K S A F S G A A R H L A  
967 GTGTTTAATATTTCATCGGGAAGATCTTGGTATCAAGAGCGCTTTTAGCGGCGCCCGGCATCTCGCT  
F G S G I H N C V G A A F A K N E I E I V A N  
1036 TTCGGATCCGGCATTCAATAACTGTGTAGGAGCAGCTTTTGCCAAAACGAAATCGAAATTGTAGCTAAT  
I V L D K M R N I R L E E D F C Y A E S G L Y  
1105 ATTGTGCTGGATAAGATCGGGAATATCAGATTAGAGGAAGATTTTGTATTGCTGAGTCCGGTCTGTAT  
T R G P V S L L V A F D G A  
1174 ACACGCGGACCTGTTTCACTTCTCGTTGCGTTTGACGGGCA

Fig. 1B

M Y T L A H T K S K A V L I L Y T V C F S A F  
 1 GTGTACACTTTGGCTCATACAAAATCAAAGGCAGTATTGATCTTATACACTGTTTGTCTTCAGTGCAATTT  
 F A S L S Q N I Y S P I L P I I K E S F H V S  
 70 TTTGCATCTTTAAGCCAGAACATTTATTACCTATTCTTCCGATCATTTAAAGAATCATTCATGTTTCC  
 T A M V N L S V S V F M I V T A I M Q I I L G  
 139 ACAGCTATGGTGAACCTGTCAGTCTCAGTTTTTATGATTGTGACAGCAATAATGCAAAATTATATTAGGA  
 A I I D F K G A R I V L I T G I L A T A A S  
 208 GCGATCATTTGATTTTAAAGGCGCTCGGATCGTCTTGATTACCGGTATTCTGGCAACGGCAGCAGCCAGC  
 I G C A V T T D F T L F L I F R M I Q A A G S  
 277 ATCGGCTGTGCGGTGACTACTGACTTTTACCTTGTCTTGATATTTCAGAAATGATACAGGCAGCCGGTTCC  
 A A L P L I A A T T I G Q L F T G N E R G S A  
 346 GCAGCACTGCCCTCTTATTGTGCTGCCACAACGATCGGACAGCTGTTTACAGGAAATGAACGGGGAGTGCA  
 M G T Y Q M L L S V A P A I A P V L G G F I G  
 415 ATGGGAACGTATCAAATGCTCCTGTCTGTGCGCACCGGCTATTGCTCCAGTTCTAGGAGGATTCATAGGC  
 G A A G Y E G I F W I L A A I S I V L L V T N  
 484 GGAGCAGCCGGATACGAAGGATTTTGTGATACTTGCGGCATCTCTATCGTTTGTCTGGTGACAAAC  
 S I T F P K D S P T E S M Q Q A K G N V F A H  
 553 AGCATCACCTTTCCTAAAGATTCTCCAACTGAATCTATGCAGCAAGCCAAAGCAATGTGTTCGCTCAT

Fig. 2A

Y K S I F T N R T G N V I L T L S F V L F F I  
 622 TATAAATCAATATTACAAAATCGAACGGAACGTCTATTGTGACTTTTAAAGTTTGTCTCTTTTTCATT  
  
 Y F A V I V Y L P I L L T E H Y H I D V G I A  
 691 TATTTTGCAGTAATTGTCTACCTCCCAATATTGCTGACAGAGCATTACCATATAGATGTGGGTATAGCA  
  
 G L L Y L P L A L S T I A G T F L F K R I Q A  
 760 GGA CTGTTATATTGCCGCTGGCGCTGAGCAGCAGATTGCAGGTACGTTTCTGTGTTTAAAGAATACAGGCA  
  
 K I G L H T L F I G S N V I A A C S I I L F A  
 829 AAAATCGGGCTGCACACCTTGTTTATCGGAAGCAATGTGATTGCCCGCTGCAGCATCATTTTATTGCT  
  
 V T H S V S L V L M A L T L A L F G I S M G V  
 898 GTTACACATTCCGTTTCTCTGTTCTCATGGCTCTGACGCTGGCACTGTTTGGCATCTCGATGGGGTT  
  
 I P P L Y S T M I T N E F E H N R G S A I G M  
 967 ATTCTCCCTTGTA CTCTACAATGATTACTAATGAATTTGAGCACACAGAGGGAGTGCAATCGGAATG  
  
 F N F I R Y T G M A A G P M V S A Y L L T M M  
 1036 TTTAAC TTTATCCGATATACAGGCATGGCAGCAGGTCCGATGGTATCTGCCTACTTGTCTCACAATGATG  
  
 P S A M S F S L L G L G F A A L S F C L L P P  
 1105 CCGTCTGCCATGTCCTTTAGCCTCTAGCCTTGGA TTTGCCGCATTGAGCTTTTGCCTTCTTCCGCCA  
  
 M F S P Q K R T K Q K K H H M  
 1174 ATGTTTTCGCCGCAGAGCGCACGAAACAAAAAGCACCATG

Fig. 2B

M S D L T K Q M I Y D I Y V R L L H L N E Q K  
1 ATGTCTGATTTGACAAAACAGATGATATACGACATATACGTGAGACTGCTGCACCTTAATGAACAAAAA  
A N T S L Q Q F F K E A A E E D V A E I P K N  
70 GCGAACACTTCACTTCAGCAATTTTAAAGGAGCGCGAGAAGAGGATGTAGTGAAATTCCCAAAAAAT  
M T S I H V I D C I G Q H E P I N N A G I A R  
139 ATGACAAGCATTCACGTCACTGACTGCATCGGCCAGCATGAACCCATTAATAATGCCGGAATTGCCAGA  
K M N L S K A N V T K I S T K L I K E E F I N  
208 AAAATGAACCTATCGAAAAGCGAATGTAAACGAAAATCAGCACAAAACCTGATCAAGGAAGAATTCATTAAAC  
S Y Q L T D N K K E V Y F K L T R K G R R I F  
277 AGCTATCAGCTGACAGATAACAAAAAGAAGTTTATTAAATTAACCCGTAAAGGCAGACGGATTTC  
D L H E K L H K K E L A F Y Q F L D S F S Q  
346 GACTTACATGAGAACTGCATAAAAAAAGGAGCTGGCTTTTACCATAATTCCTCGATTCTTTCACAA  
E E Q K A V L K F L E Q L T S T L E A E Q T D  
415 GAAGAACAAGGCTGTATTGAAGTTTCTAGAGCAGTTGACGTCAACACTTGAAGCAGAACAAACCGAT  
G T P D K P V K  
484 GGGACTCCAGACAAACCTGTAAAG

Fig. 3

M N E M T G M V T E R R S V H F I A E A L T E  
1 GTGAATGAGATGACCGGAATGGTAACGGAAGAGTCTGTGCATTTTATTGCTGAGGCATTAACAGAA  
N C R E I F E R R R H V L V G I S P F N S R F  
70 AACTGCAGAGAAATATTGAACGGCGCAGGCATGTTTGTGGGATCAGCCCATTTAACAGCAGGTTT  
S E D Y I Y R L I G W A K A Q F K S V S V L L  
139 TCAGAGGATTATATTACAGATTAAATTGGATGGCGAAAGCTCAATTTAAAGCGTTTCAGTTTACTT  
A G H E A A N L L E A L G T P R G K A E R K V  
208 GCAGGGCATGAGCGGCTAATCTTCTAGAAGCGCTTGAACTCCGAGAGGAAAGGCTGAACGAAAAGTA  
R K E V S R N R R F A E R A L V A H G G D P K  
277 AGGAAAGAGGTATCAGAAACAGGAGATTTCAGAAAGAGCCCTTGTGGCTCATGGCGGGATCCGAAG  
A I H T F S D F I D N K A Y Q L L R Q E V E H  
346 GCGATTCATACATTTTCTGATTTTATAGATAACAAAGCCTACCAGCTGTTGAGACAAGAAGTTGAACAT  
A F F E Q P H F R H A C L D M S R E A I I G R  
415 GCATTTTGTAGCAGCCCTCATTTTCGACATGCTTGTGACATGCTCTCGTGAAGCGATAATCGGGCGT  
A R G V S L M M E E V S E D M L N L A V E Y V  
484 GCGCGGGCGTCAGTTTGATGATGGAAGAAGTCAGTGAGGATATGCTGAATTTGGCTGTGGAATATGTC  
I A E L P F F I G A P D I L E V E T L L A Y  
553 ATAGCTGAGTCCCGTTTTTTATCGGAGCTCCGGATATTTTAGAGGTGGAAGAGACACTCCTTGCTTAT

Fig. 4A

H R P W K L G E K I S N H E F S I C M R P N Q  
622 CATCGTCCGTGGAAGCTGGGTGAGAAGATCAGTAACCATGAATTTTCTATTGTAATGCGGCCGAATCAA  
G Y L I V Q E M A Q M L S E K R I T S E G  
691 GGTATCTCATTTACAGGAAATGGCGCAGATGCTTTCTGAGAAACGGATCACATCTGAAGGA

Fig. 4B

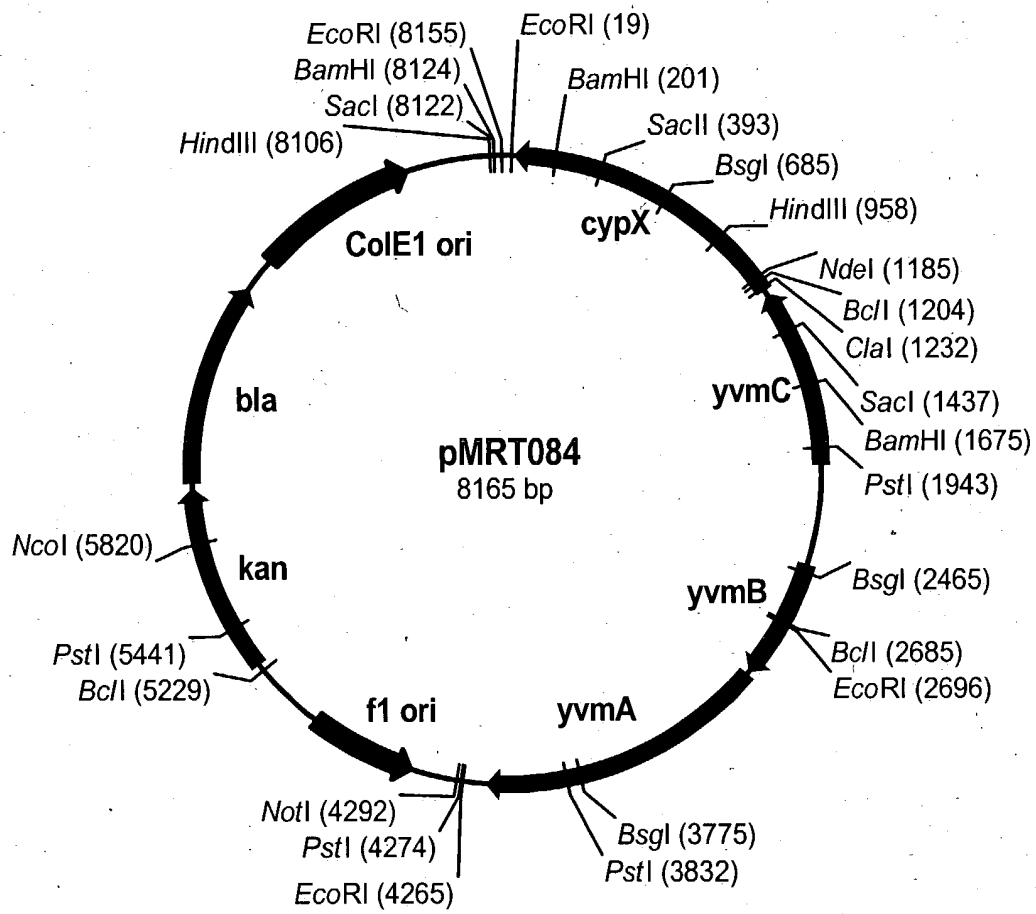


Fig. 5



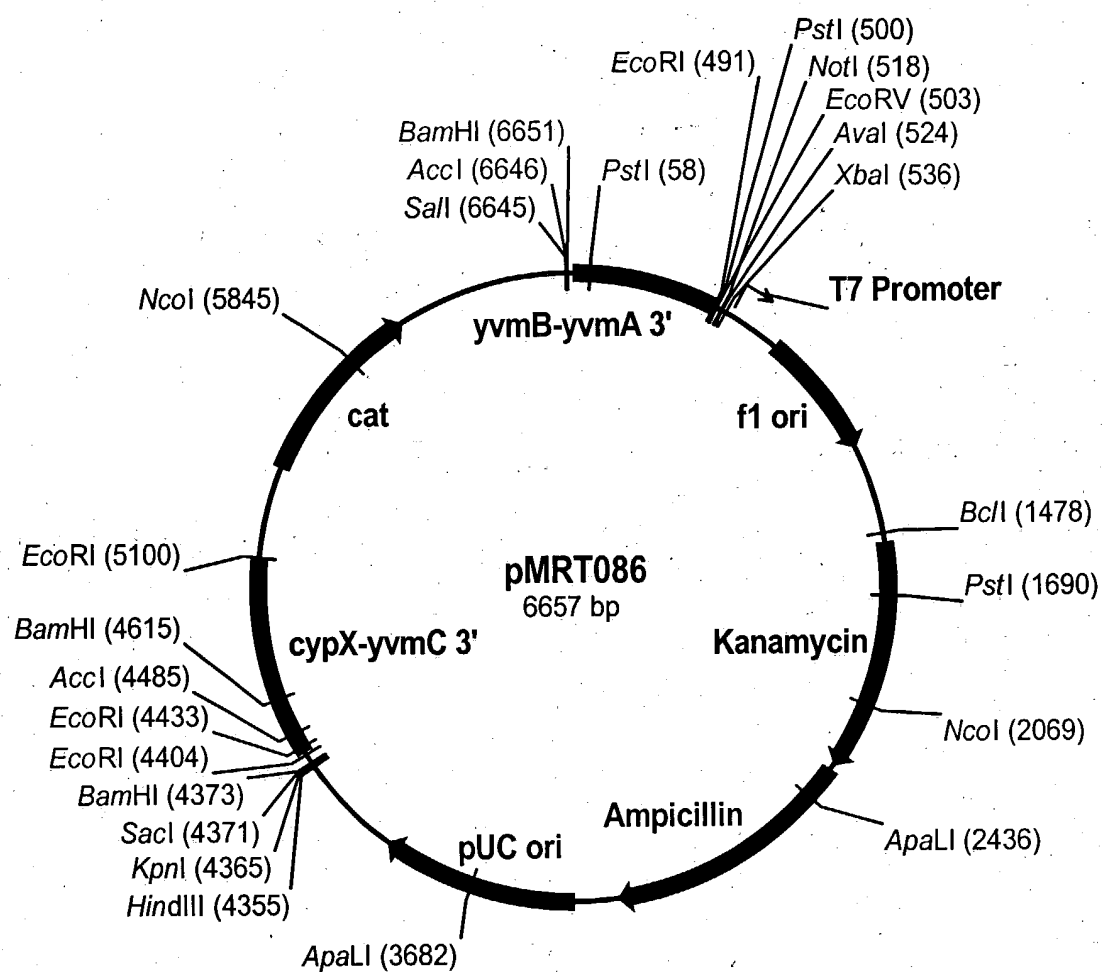


Fig. 6

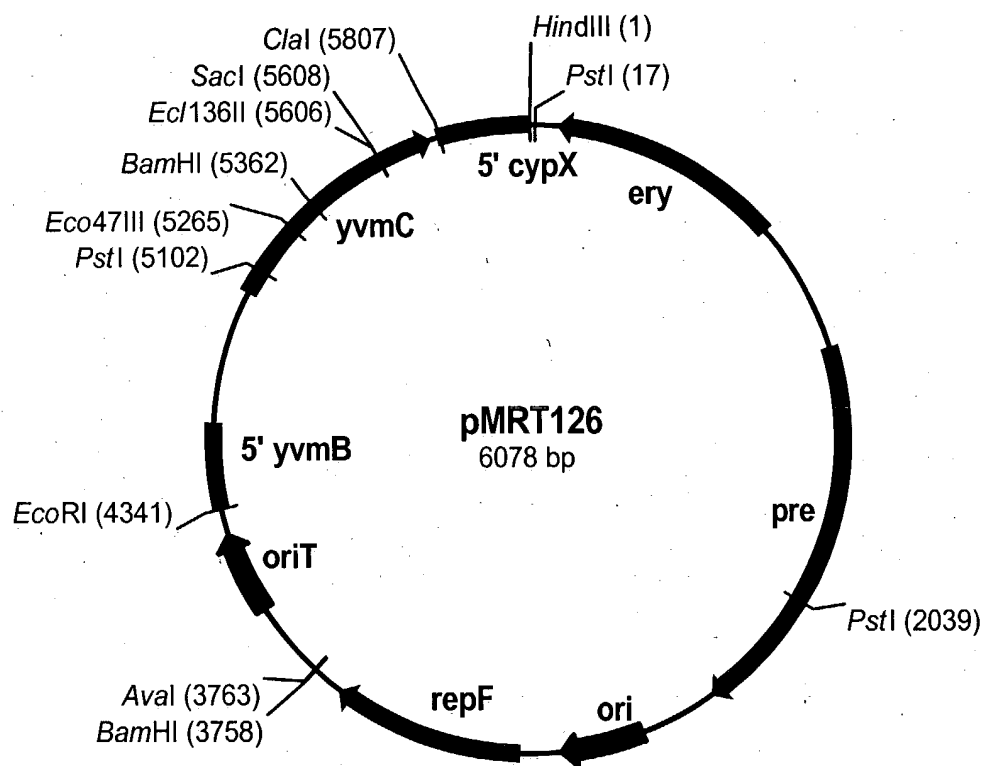


Fig. 7

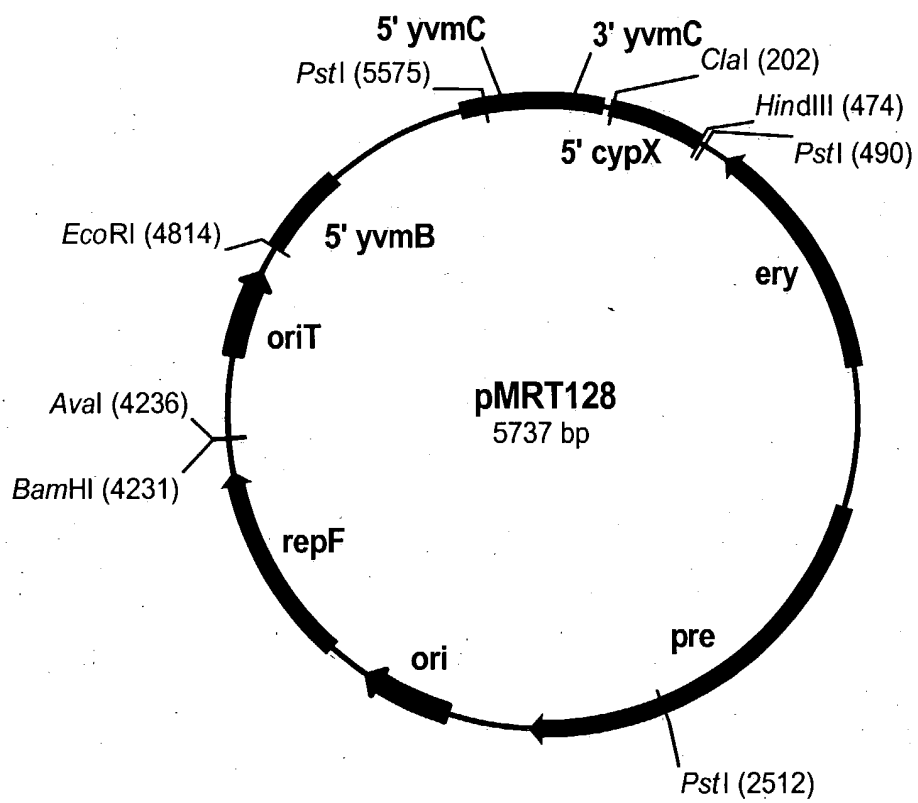


Fig. 8

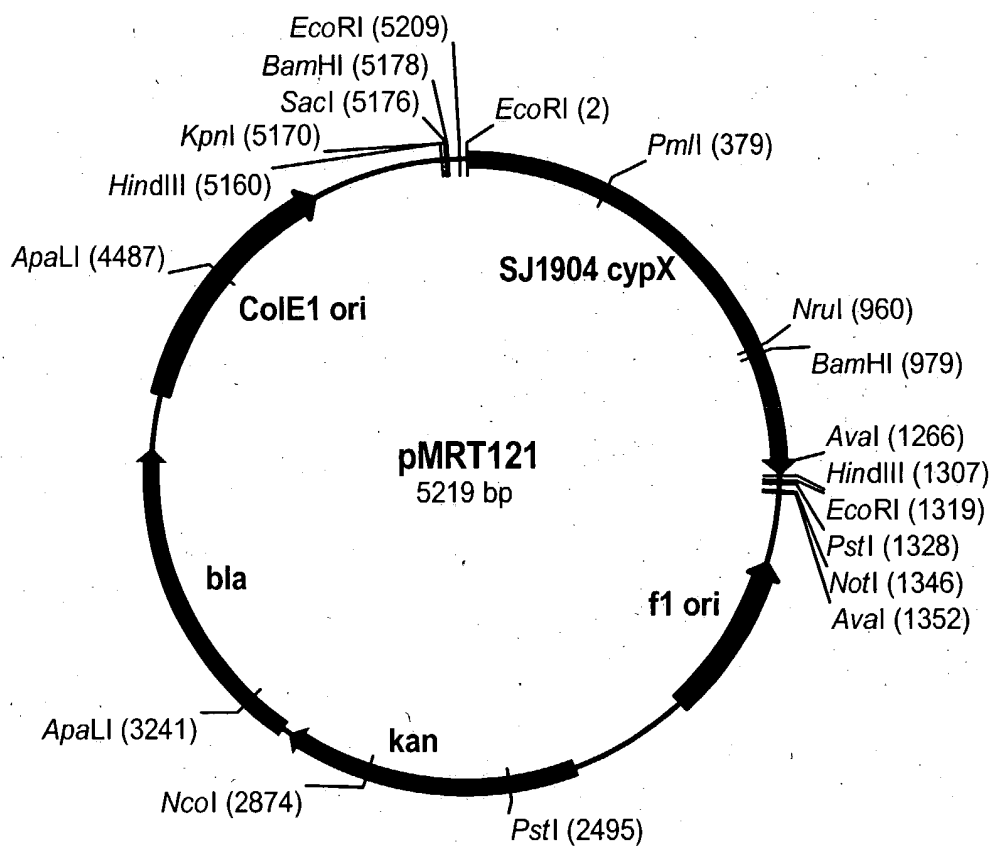


Fig. 9

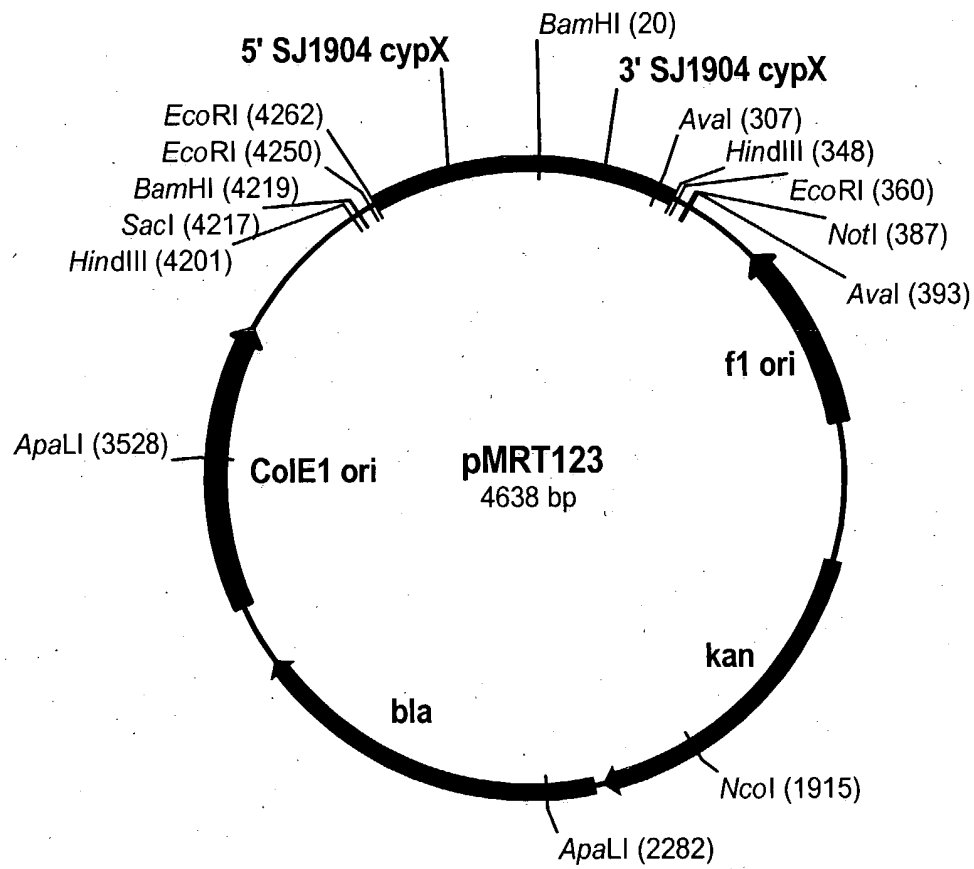


Fig. 10

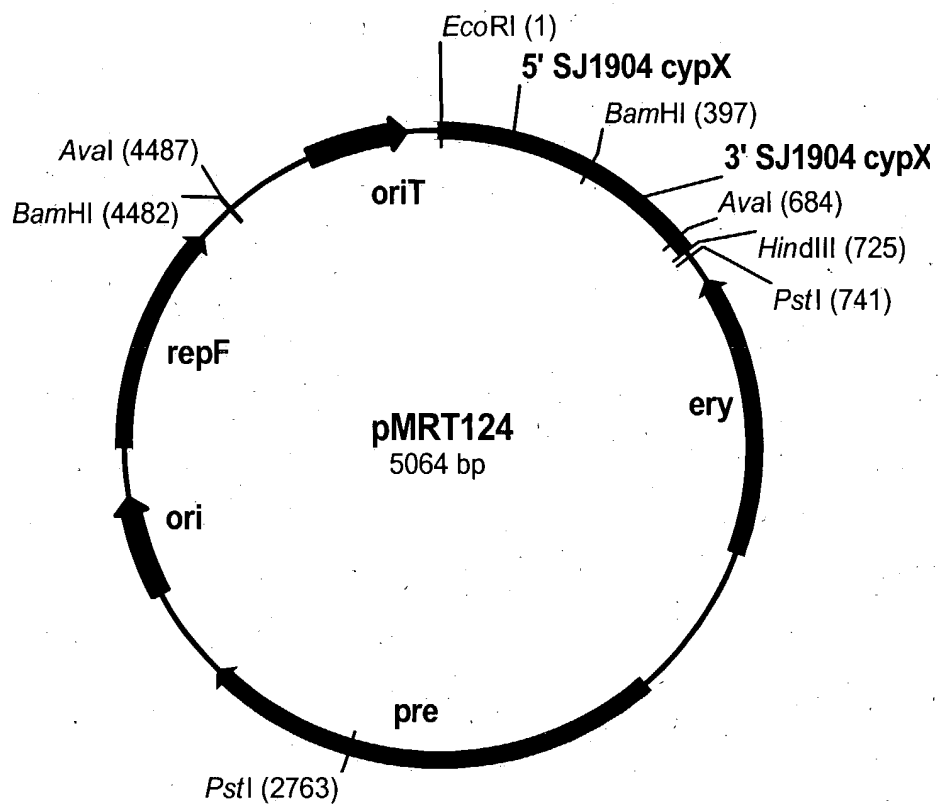


Fig. 11